



## Software Release Notes

### Release 2.5.0.2

*Relevant to SR Series Models:*

***SR350N    SR350NE    SR360n***

***SR500N    SR500NE    SR505N***

***SR510n    SR550n***

## ***Document History***

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Description</b>
1.0	08/05/2012	M. Solomon	Document creation
2.0	10/11/2012	P. Franzek	Addition of Custom Defaults Usage

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## SW Revision Summary

SW Version	DSP/xDSL Line Driver	CFE	Wireless Driver	Release Date
2.5.0.2	A2pG038i.d25 (SR360) A2pD038f.d25 (SR350) A2pv6C039b.d25 (SR500) A2pv6F039b.d25 (SR505/SR510) A2pvbF038n.d25 (SR550)	1.0.38-114.185	6.30.163.23.cpe4.12L08.1	4/18/14
2.5.0.1	A2pD038f.d24m (SR350) A2pG038i.d24m (SR360) A2pv6C039b.d24m (SR500) A2pv6F039b.d24m (SR505/SR510) A2pvbF038n.d24m (SR550)	1.0.38-114.70	6.30.102.7.cpe4.12L08.0	12/19/13
2.4.4.6	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500) A2pv6F037a.d24a (SR505)	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	8/26/2013
2.4.4.5	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500) A2pv6F037a.d24a (SR505)	1.0.38-112.70	5.100.138.2001.cpe4.12L04.3	6/5/2013
2.4.4.4	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	11/12/2012
2.4.4.3	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	10/11/2012
2.4.4.2	A2pD035j.d24a (SR350) A2pv6C035j.d24a (SR500)	1.0.37-106.24	5.100.138.2001.cpe4.12L04.3	7/30/2012
2.4.3.7	A2pD030n.d23c (SR350) A2pv6C032a.d23c	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	5/31/2012

	(SR500)			
2.4.3.6	A2pD030n.d23c (SR350) A2pv6C032a.d23c (SR500)	1.0.37-106.24	5.60.120.11.cpe4.06L.03.8	4/26/2012

## Changes and Fixes

Ref #	Description	Notes
RB-124	Wireless Guest Isolation	
RB-503	G.inp not supported or not visible on GUI	
RB-539	Able to configure the invalid interface IP address (192.168.5.255 & 192.168.5.0 ) for the second IP Address for LAN interface	
RB-568	Able to configure Port Forward entries with broadcast IP address	
RB-570	Able to access CPE GUI through guest network.	
RB-610	Power LED not working on 360n with latest 2.5.0.2	
RB-712	SR550N G.inp Enable non-writeable config	
RB-763	Need to expose Serial # via Web and Command Line for Production	
RB-797	Can Configure Invalid IP as "STUN Server Address"	
RB-799	SR360 - USB LED stuck on.	
RB-801	360N Internet LED seems to be in constant flashing	
RB-803	Disable Ethernet WAN port in CFE to disable bridging DHCP requests	
RB-804	Stinger mode setting is not persisting across reboots.	
RB-867	LAN Client is not obtained LAN IP using LAN4 Port	
RB-871	2.5.0.1 SN odd characters SN after FRESET	
RB-873	Minimum Cell Rate: [cells/s] (-1 indicates no shaping) only can put in -1	
RB-874	DHCP Lease Table - adjustment	
RB-879	Able to configure duplicate Static routes	
RB-882	Max number of wireless clients different between the 550 and 505	
RB-903	Remove 5GHz from 505n and 510n GUI	
RB-927	Port 30005 remains on even when TR-069 is disabled	
RB-929	SR510 - Port forward stops working	
RB-933	CPE's DHCP is providing Invalid IP to LAN clients through static IP lease entries	
RB-956	CPE is not obtaining WAN IP in IPoE ETH WAN Gateway after reboot	
RB-965	Bridge mode not passing traffic	
RB-978	CPE is getting rebooted continuously if DHCP option 121 is enabled in DHCP server	
RB-980	Fix 360 Power LED issue	
RB-988	httpd crash 2.5.0.2 < 24 hrs (causing reboot)	

## Improvement

Ref #	Description	Notes
RB-164	Display WAN IP on front page	
RB-583	UPnP Failures in CD-Router	
RB-800	SR360N Enable ADSL PTM Mode Enable for PTM interface	
RB-805	Integrate rev A2x025 DSL drivers into 2.5.0.2	
RB-869	New serial number not getting populated in the MDM	
RB-881	Remove all references to WAPI from the wireless GUI pages	
RB-887	Remove PPP dial on demand feature from code.	
RB-937	New Firmware images for LIME	

RB-944	NAT and Firewall enabled by default for WAN connections	
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## New Feature

Ref #	Description	Notes
RB-813	Disable Wifi On/off button via HTTP/CLI/TR-069	
RB-868	4G USB Dongle support for SR360	
RB-904	Custom default WiFi params	

## Compatibility/System Notes

The introduction of Custom Default Settings feature requires the CFE to be upgraded when moving from any firmware version 2.4.4.2 or before. Firmware upgrades from any version below 2.4.4.3 to 2.4.4.3 or newer requires the CFE to be upgraded by use of the firmware that includes a new CFE. Firmware files containing a CFE contain the string "cfe" in the filename. For example, the file, CA\_PBCA\_2.4.4.3\_24742\_SR350N\_cfe\_fs\_kernel, would be used to upgrade the firmware on a SR350N gateway.

Failure to upgrade the CFE when moving from a firmware version before version 2.4.4.3 will result in unpredictable operation of the gateway and unknown factory default settings.

Downgrading from 2.4.4.3 and newer versions to pre 2.4.4.3 is not advised. If a downgrade must be accomplished, a factory default of the device via the reset button must be performed. The downgrade must be accomplished using the CFE image of the target firmware release. Factory default the device after the firmware has been downgraded by holding the reset button for at least 10 seconds after applying power to the device. Power must be off before pressing the reset button.

This 2.4.4.2 FW release is the first upgrade from Broadcom 4.06 to 4.12 SDK (software development kit). The image containing "CFE" in the file name should be used when upgrading from or downgrading to pre-4.06 versions. The Broadcom version can be determined by looking at the software version in the modem's device info page. For example this is a 4.12 version; '2.4.4.2\_4.12L.04.A2pD035j.d24a'. Target download protection has been enabled which prevents downloads of incompatible files.

IGMP Snooping Definitions:

Standard Mode - in standard mode, if multicast traffic is present on a LAN port but no membership report (join) was received, the traffic will flood to all ports. If a membership report was received, multicast traffic will be forwarded only to the LAN ports on which the IGMP membership reports arrived.

Blocking Mode - in blocking mode, multicast traffic will be blocked from all ports until such time a report is received.

If IGMP snooping is disabled the CPE floods multicast packets to all its ports. IGMP Snooping is disabled by default.

This software supports Physical Layer Retransmission (PhyR) which operates at layer 1 and uses a mechanism similar to TCP where retransmits occur if errors are detected. This results in high

effective INP with minimal interleave delay. Sync rate increases from 2 to 4Mbps have been reported in addition to the line being more robust and resistant to noise/interference generated from treadmills, ceiling fans, etc. PhyR is disabled by default but can be enabled in the DSL menu.

Wireless is enabled by default with SSID = SmartRGxxxx (x = last four characters of base MAC). Wireless security is Mixed WPA2/WPA-PSK, passphrase = OneCpeToRuleThemAll, Rekey interval = 0 and encryption = TKIP+AES.

Included PBCA Features:

- Control Panel
- Content Filtering
- Time Blocking
- Captive Portal
- Connect and Surf
- STUN and UDP Connection Request
- Advanced Connected Device Monitor
- Bandwidth Monitor
- WiFi Performance Monitor
- Dynamic Content Filtering

## ***Prior FW Releases***

Contact SmartRG support for the release notes for prior firmware releases.

## ***FW Upgrade Procedure***

### **Upgrade Firmware**

1. Open a web browser, connect to 192.168.1.1/admin, and login with username **admin** and password **admin** (or customer specific IP address and login info)
2. Click Management → Update Software and select the Browse button.
3. Locate and select the appropriate firmware image.
4. Select the Update Software Button. The image will be uploaded to the device and the device will automatically reboot upon completion.

### **Verify**

1. Hit the F5 Key to refresh your browser and reconnect to 192.168.1.1/admin to log back into the device.
2. Click on Device Info.
3. Verify the version information in the *Software Version* field.

### **Restore Defaults**

1. Click on the Management Link
2. Click on settings.
3. Click on Restore Default.

## ***Custom Defaults***

The Custom Defaults feature allows the importation of a set of defaults to the gateway that will be restored when the Restore Default Settings is activated. This set of defaults can be defined and updated via the GUI, CLI or CWMP support of the gateway.

To create a set of Custom Default settings, configure the gateway as required. Use the Backup Running Configuration button on the Backup Settings to upload a configuration file from the gateway. After the file is uploaded, choose the file and use the Update Working Settings button on the Update Settings window to download the file to the gateway. The gateway will use the downloaded settings as the custom default whenever the Restore Default operation is invoked.

### ***Tech Support:***

#### **CPE Issues:**

Submit a ticket using our Customer Portal at <https://smartrg.atlassian.net>

#### **RMAs:**

Open a Customer Portal ticket with description “RMA” and attach a spreadsheet which includes Model, MAC address, Issue, and Firmware version.

#### **Firmware:**

Login to the Customer Portal to download firmware.

#### **Additional Contact Info:**

Phone: +1 360 859 1780, Option 4 Hours: 5am –5pm PST (UTC-0800) Email: [support@smartrg.com](mailto:support@smartrg.com)